
PART I - ADMINISTRATIVE

Section 1. General administrative information

Title of project

Independent Scientific Advisory Board Support

BPA project number: 8907201
Contract renewal date (mm/yyyy): 10/1999 ☐ Multiple actions?

Business name of agency, institution or organization requesting funding
Department of Energy/Oak Ridge National Laboratory

Business acronym (if appropriate) DOE/ORNL

Proposal contact person or principal investigator:

Name	Charles C. Coutant
Mailing Address	ORNL/ESD/ PO Box 2008/Bldg. 1505: Mail Stop 6036
City, ST Zip	Oak Ridge, TN 37831-6036
Phone	423-576-6830
Fax	423-576-3989
Email address	coutantcc@ornl.gov

NPPC Program Measure Number(s) which this project addresses
3.2B, 3.2C.1, 3.2D

FWS/NMFS Biological Opinion Number(s) which this project addresses
n/a

Other planning document references

The ISAB fulfills the recommendation for the creation and implementation of a Salmon Advisory Panel as described in the NMFS Proposed Snake River Salmon Recovery Plan, March 1995, III.0.1.b. Specifically, NMFS established the ISAB to review the implementation of the Proposed Recovery Plan for Snake River Salmon and other actions implemented pursuant to the ESA.

Short description

Provide support through contract with DOE for Dr. Charles Coutant for the Independent Scientific Advisory Board (ISAB), for scientific advice to the NPPC's FWP and NMFS's ESA programs.

Target species

Section 2. Sorting and evaluation

Subbasin
systemwide

Evaluation Process Sort

CBFWA caucus	Special evaluation process	ISRP project type
Mark one or more caucus	If your project fits either of these processes, mark one or both	Mark one or more categories
<input checked="" type="checkbox"/> Anadromous fish <input type="checkbox"/> Resident fish <input type="checkbox"/> Wildlife	<input type="checkbox"/> Multi-year (milestone-based evaluation) <input type="checkbox"/> Watershed project evaluation	<input type="checkbox"/> Watershed councils/model watersheds <input type="checkbox"/> Information dissemination <input type="checkbox"/> Operation & maintenance <input type="checkbox"/> New construction <input type="checkbox"/> Research & monitoring <input checked="" type="checkbox"/> Implementation & management <input type="checkbox"/> Wildlife habitat acquisitions

Section 3. Relationships to other Bonneville projects

Umbrella / sub-proposal relationships. List umbrella project first.

Project #	Project title/description

Other dependent or critically-related projects

Project #	Project title/description	Nature of relationship
9600500	Independent Scientific Advisory Board	9600500 is the primary (umbrella) proposal for the ISAB. This proposal is separate solely because of contractual requirements of the DOE.

Section 4. Objectives, tasks and schedules

Past accomplishments

Year	Accomplishment	Met biological objectives?
1996	Review of the FWP. NPPC Report 96-6 by the Independent Scientific Group: Return to the River.	
1997	Participated in 8 reviews requested by NMFS and the Council including reviews of downstream passage for salmon, PIT Tag research, NMFS Waiver of Dissolved Gas Standard, ecological impacts of BiOp flow provisions on Hungry Horse and Libby resident fishes.	
1998	Participated in 8 Reviews requested by NMFS, the Council, and Congress including review of the Corps Capital Construction Program, PIT tag workplan, and the Multi-Species Framework Scientific Principles.	

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Objectives and tasks

Obj 1,2,3	Objective	Task a,b,c	Task
1	Provide scientific advise to NPPC and NMFS as requested.		(see Proposal No. 9600500)

Objective schedules and costs

Obj #	Start date mm/yyyy	End date mm/yyyy	Measureable biological objective(s)	Milestone	FY2000 Cost %
1	1/1996				100%
				Total	100.00%

Schedule constraints

Schedules established monthly.

Completion date

Dr. Coutant's first term with the ISAB is up for renewal at the end of FY1999. At most he can serve another three-year term through FY2002.

Section 5. Budget

FY99 project budget (BPA obligated): \$99,840

FY2000 budget by line item

Item	Note	% of total	FY2000
Personnel		%61	61,410
Fringe benefits		%0	
Supplies, materials, non-expendable property		%0	
Operations & maintenance		%0	
Capital acquisitions or improvements (e.g. land, buildings, major equip.)		%0	
NEPA costs		%0	
Construction-related support		%0	
PIT tags	# of tags:	%0	
Travel		%12	11,550
Indirect costs	ORNL/DOE	%27	26,958
Subcontractor		%0	

Other		%0	
TOTAL BPA FY2000 BUDGET REQUEST			\$99,918

Cost sharing

Organization	Item or service provided	% total project cost (incl. BPA)	Amount (\$)
		%0	
		%0	
		%0	
		%0	
Total project cost (including BPA portion)			\$99,918

Outyear costs

	FY2001	FY02	FY03	FY04
Total budget	\$100,000	100,000		

Section 6. References

Watershed?	Reference
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

PART II - NARRATIVE

Section 7. Abstract

This project provides support through the Department of Energy for Dr. Charles Coutant's service on the Independent Scientific Advisory Board (ISAB). The Independent Scientific Advisory Board (ISAB) was established by the Northwest Power Planning Council (the Council) and the National Marine Fisheries Service (NMFS) to provide independent scientific advice and recommendations on issues related to regional fish and wildlife recovery programs under the Northwest Power Act and the Endangered Species Act. Dr. Coutant serves on the ISAB's Executive and Mainstem committees, and prepares drafts of reports within his area of expertise (salmon, mainstem habitat, temperature, dissolved gas, flow/survival, and passage) for full ISAB discussion and consensus. Final reports are presented to and distributed by the Council and NMFS.

Section 8. Project description

a. Technical and/or scientific background

This proposal should be attached to the proposal for the Independent Scientific Advisory Board, BPA Project Number 9600500. That proposal fully describes the ISAB project of which Dr. Coutant is an integral participant. Please read 9600500 before reading this proposal. This proposal is split from the

primary ISAB proposal because Dr. Coutant's employer, the Department of Energy, requires a separate funding mechanism. CBFWF administers the contracts of the other ten ISAB members.

b. Rationale and significance to Regional Programs

See 9600500

c. Relationships to other projects

Dr. Coutant is also a member of the Independent Scientific Review Panel (ISRP). His joint participation ensures that the groups share information, do not duplicate efforts, and provide consistent and scientifically accurate advice. Dr. Coutant's expertise has been especially useful in establishing the FWP's peer review process. Specifically, he helped develop the ISRP's review criteria and the "Guidelines for Proposals" attached to this BPA proposal solicitation.

d. Project history (for ongoing projects)

Dr. Coutant's participation in advisory bodies to the Council's Fish and Wildlife Program began in 1989 with appointment to BPA's Scientific Review Group (SRG). The SRG was a component of the Implementation Planning Process for BPA's implementation of the Council's 1987 FWP and the 1980 Northwest Power Act. This project was established at that time with the title, "Scientific Review Group Support."

In 1995, the SRG was reestablished as the Independent Scientific Group (ISG) to specifically address Measure 3.2B.1 of the 1994 FWP. Dr. Coutant was appointed to the ISG and the project (same number) was retitled "Independent Scientific Group Support." This title remained in FY 1997 and FY1998.

In 1996, the ISG was reformulated as the Independent Scientific Advisory Board with Dr. Coutant as a member. For FY1999 the project's title changed to "Independent Scientific Advisory Board Support" while retaining the same project number. The cost for Dr. Coutant's services were budgeted at approximately \$100,000 per year for FY1997, FY1998, and FY1999.

Numerous reports have been prepared under this project, and are listed in annual reports by the SRG, ISG, and ISAB to the respective agency.

Dr. Coutant serves on the ISAB's Executive and Mainstem committees. He participates in the discussions and the development of consensus recommendations for all ISAB reports (see 9600500 for a complete list). In addition, he has taken the lead in drafting several sections and chapters in ISG/ISAB reports including but not limited to:

NPPC Report 96-6 by the Independent Scientific Group: Return to the River. Prepublication Copy (September 10, 1996)

ISAB 97-1: Review of the National Marine Fisheries Service's "1996 Annual Report to the Oregon Department of Environmental Quality" related to Waiver of Dissolved Gas Standard (January 6, 1997)

ISAB 97-7: Review of NMFS "1997 Draft Annual Report to the Oregon Department of Environmental Quality" Related to Waiver of Dissolved Gas Standard (December 22, 1997)

The ISAB Corps Capital Construction Project Review Reports:

ISAB 98-4: First Report: The Corps Capital Construction Project Review. The Scientific Basis for Juvenile Fish Passage Improvements in the Federal Columbia River Power System: John Day Extended Length Turbine Intake Screens and Bonneville Dam Bypass System Outfalls (June 9, 1998)

ISAB 98-7: Review of the U.S. Army Corps of Engineers' Capital Construction Program, Part II.A. Development and Testing of Surface Bypass (September 29, 1998)

ISAB 98-8: Review of the U.S. Army Corps of Engineers' Capital Construction Program, Part II.B. Dissolved Gas Abatement Program (September 29, 1998)

e. Proposal objectives

The primary objective of the project is to fund Dr. Coutant to provide scientific advice to NPPC and NMFS, through the Independent Scientific Advisory Board, as requested by the Council and NMFS. The advice is given in the form of consensus reports by the ISAB to the Council and NMFS that address specific requests made of the ISAB. The project cost covers time, travel, incidental material and services expenses, and overhead. See 9600500 for more details on overall ISAB objectives and tasks.

f. Methods

See 9600500.

g. Facilities and equipment

Meeting space is provided by the Council at its Portland office and by NMFS at the Seattle Northwest Science Center (monthly meetings generally alternate). Staff support is provided at meetings and at other times by both agencies. Members provide their own office space, computers, etc. The ISAB is coordinated electronically with e-mail and standard word processing and e-mail programs, provided by each member. Dr. Coutant is provided contemporary office, library, and administrative facilities and support by the Oak Ridge National Laboratory, a 4000+ staff, multipurpose research and development laboratory within the U.S. Department of Energy national laboratory system.

h. Budget

The DOE and BPA administer Dr. Coutant's contract. He is paid an hourly rate for services. Time and tasks are recorded on a timesheet, which is submitted to BPA and Council staff for approval. Billable tasks must be officially approved by the Council and NMFS. Dr. Coutant is reimbursed for travel costs associated with board services.

Section 9. Key personnel

Charles C. Coutant, Ph.D.

Education: BA 1960 (Lehigh); MS 1962 (Lehigh); PhD 1965 (Lehigh)..

Previous Positions: (1) Battelle-Pacific Northwest Laboratories, Richland, Washington (1965-70): Research Scientist, Columbia River Thermal Effects Studies;
(2) Oak Ridge National Laboratory (1970-present): Manager Thermal Effects Program (1970-79), Leader Multimedia Modeling Project (1979-82); Manager DOE Global Carbon Cycle Program (1985-86); Manager ORNL Exploratory Studies Program (1989-1991); Senior Research Staff (1982-85, 1986-88, 1992-present).

Professional Affiliations: American Association for the Advancement of Science (Fellow); American Institute of Fishery Research Biologists (Fellow); American Fisheries Society (President of Tennessee Chapter, Southern Division, and Water Quality Section; Co-Editor Transactions; Society President 1996-97); American Society of Limnology and Oceanography; American Society for Testing and Materials (Chair Environmental Fate Models Task Group); Ecological Society of America (Vice Chair Applied Ecology Section); Sigma Xi (Southeast Regional Lecturer, President Oak Ridge Chapter); Water Pollution Control Federation (Literature Review Committee-Thermal Effects).

Honors: Darbaker Prize in Microbiology, Pennsylvania Academy of Science; Director's Award, Battelle-Northwest; Excellence in Fisheries, TN Chapter AFS; Outstanding Publication, Martin Marietta Energy Systems (operator of ORNL); Distinguished Publication, American Society for Information Science; Distinguished Service Award,

American fisheries Society.

Publications: refereed articles in journals-44; non-refereed articles in journals-19; book chapters-29, Symposium articles-31; laboratory or agency reports-64; book reviews, news articles, editorials-19; contributions to Environmental Impact Statements-9; total 216 (as of end of FY1996).

Section 10. Information/technology transfer

See 9600500.

Congratulations!